



NETEOROLOGICAL DATA REPORT

19304 0886 Missile Nos. 1115, 1116, 1117 Round Nos. 7-58, V-59, V-60 30 July 1979

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ANDRESSEE COLUMN LABORATORY
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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered) **READ INSTRUCTIONS** REPORT DOCUMENTATION PAGE BEFORE COMPLETING FORM . REPORT NUMBER 2. GOVT ACCESSION NO. 3. RECIPIENT'S CATALOG NUMBER DR-1047 19304 GSRS 2 5. TYPE OF REPORT & PERIOD COVERED Missile Numbers 1115, 1116, 1117, Round Numbers V-58, V-59, V-60, 34 July 1979. 7. AUTHOR(a) 8. CONTRACT OR GRANT NUMBER(\*) 1T6657 20126 White Sands Meteorological Team 9. PERFORMING ORGANIZATION NAME AND ADDRESS 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS US Army Electronics Research & Development Comd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office) 15. SECURITY CLASS. (of this report) US Army Electronics Research & Development Comd UNCLASSIFIED 15. DECLASSIFICATION/DOWNGRADING 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited. 17. DISTRIBUTION STATEMENT (al the abstract entered in Block 20, If different from Report) BRADCOM/ASL-DR-1947 18. SUPPLEMENTARY NOTES Meteorological data rept. 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 20. ABSTRACT (Continue on reverse side if necessary and identity by block number) Meteorological data gathered for the launching of 19304 GSRS, Missile numbers 1115 thru 1117, Round Numbers V-58 thru V-60, are presented in tabular form

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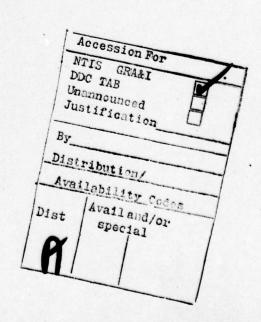
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## INTRODUCTION

19304DT GSRS , Missile Numbers 1115 thru 1117 , Round Numbers V-58 thru V-60 , were launched from LC-33 , White Sands Missile Range (WSMR), New Mexico, at 1100, 1100:03, 1100:06MDT 30 July 1979 . The scheduled launch times were 1100, 1100:02.5, 1100:05 MDT.

#### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

- 1. Observations
  - a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density  $(gm/m^3)$ , wind direction and speed, and cloud cover were made at the <u>LC-33</u> Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
  - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

# SITE AND ALTITUDE

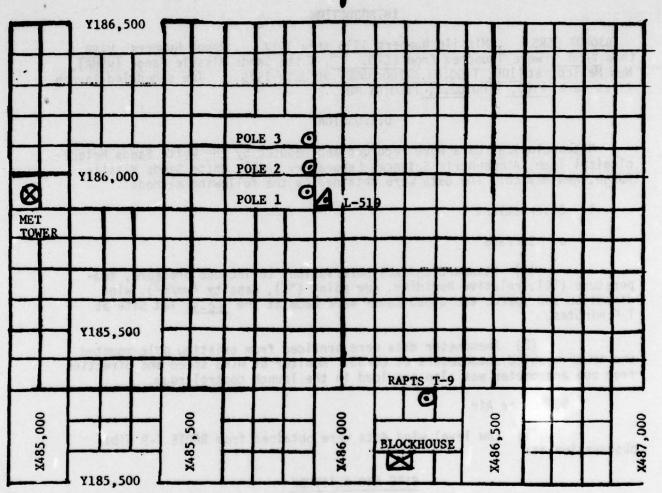
LC-33 1080 Meters NICK SITE 1020 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 89.000 feet in 500-feet increments.

SITE AND TIME

SMR 1000 MST

NORTH



 MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.

C-33 1080 Paters

- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
  - (a) Pole #1 38.7 ft
  - (b) Pole #2 53.0 ft
  - (c) Pole #3 83.6 ft
- 3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface observations taken at LC-33 30 July 1979 at 1100 MDT, 19304 GSRS, Missile Nos. 1115, 1116, 1117, Round Nos. V-58, V-59, V-60.

ELEVATION	3977.30	FT/MSL
PRESSURE	880.9	MBS
TEMPERATURE	28.2	°C
RELATIVE HUMIDITY	46	*
DEW POINT	15.4	•c
DENSITY	1008	GM/M <sup>3</sup>
WIND SPEED	04	MPH
WIND DIRECTION	140	DEGREES
CLOUD COVER	1 SC	
CLOUD COVER	1 AC	us of the time
CLOUD COVER	8 AS	

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

	POLE #1	104.15	B B	POLE #2			POLE #3	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED
-30	M	07	-30	143	05	-30	128	09
-20	M	06	-20	133	07	-20	138	10
-10	M	07	-10	136	06	10	134	10
0.0	M	08	0.0	146	05	0.0	137	09.
+10	M	07	+10	153	05	+10	142	08

Type 19304 GSRS , Missile No. 1115, 1116, 1117, Round Nos. V-58, V-59, V-60, launched from LC-33 on 30 July 1979 at 1100 MDT.

POLE #	1 =	X485,874.29	Y185,958.90	H4018.74	38.7	ft.	AGL
POLE #	2 =	X485,874.93	Y186,012.00	H4033.57	53.0	ft.	AGL
POLE #	3 =	X485,877.29	Y186,116.06	H4063.92	83.6	ft.	AGI.

NOTE: Wind directions are referenced to the firing azimuth or true north true north.

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

LEVEL #1 12 ft.			LEVEL #2 62 ft.			
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	
-30	015	06	-30	130	06	
-20	M	04	-20	115	07	
-10	M	04	-10	120	06	
0.0	M	04	0.0	110	.06	
+10	M	03	+10	120	06	
	EVEL #3 102 ft.		LEVEL #4 202 ft.			
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR	SPEED MPH	
-30	160	06	- 30	135	06	
-20	135	06	-20	130	04	
-10	135	05	-10	130	04	
0.0	123	05	0.0	130	05	
+10	130	05	+10	115	05	

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base)

Type 19304 GSRS, Missile Nos. 1115, 1116, 1117, Round Nos. V-58, V-59, V-60, launched from LC-33 on 30 July 1979 at 1100 MDT.

NOTE: Wind directions are referenced to the firing azimuth or true north true north.

# PILOT BALLOON MEASURED WIND DATA\*

TABLE 4			
RELEASED FROM LC-33	DATE 30 July 1979	TIME	1100 MDT
RELEASE POINT COORDINATES (W	STM) X= 486.037.24 Y= J	182,350.16	H= 3977.30
MISSILE TYPE 19304 GSRS M	ISSTLE NO.1115. 1116. 111	17 ROUND NO. V.	-58, V-59, V-60
MISSILE LAUNCHED FROM LC-33	DATE 30 July 19	979 TIME	MDT
NOTE: WIND DIRECTIONS ARE R	EFERENCED TO THE FIRING	AZIMUTH	
OR TRUE NORTH TRUE NORTH			

Heights are METERS AGL\_ METERS\_\_ or FEET AGL

HE1GHT AGL	DIRECTION DEGREES	SPEED MPH
SFC	132	06.0
30	130	05.5
60	128	05.5
90	126	04.5
120	123	03.5
150	127	05.5
180	130	06.5
210	133	08.0
240	136	09.5
270	135	09.5
300	133	09.5
330	131	09.5
360	129	09.0

HEIGHT AGL	DIRECTION DEGREES	SPEED MPH
390	138	08.0
420	146	07.0
450	154	06.0
480	162	05.0
510	167	05.0
540	172	04.5
570	177	04.0
600	182	03.5
630	186	04.0
660	190	04.0
690	194	04.0
720	198	04.0
750	206	05.0

Page 2 of 2 Pages

RELEASED FROM LC-33 DATE 30 July

DATE 30 July 1979 TIME 1100 MDT

E I GHT AGL	DIRECTION DEGREES	SPEED MPH
780	213	05.5
810	221	06.0
840	228	06.5
870	226	06.5
900	223	06.5
930	220	06.5
960	217	06.0
990	199	05.5
1020	180	04.5
1050	161	04.0
1080	142	03.0
E.A.		
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erbot (zerotea		
an sale y		

HE IGHT AGL	DIRECTION DEGREES	SPEED MPH
NO X3		MOST ROOMS
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(銀子)。	34 3/317932	5 (S.M. 138)
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### PILOT BALLOON MEASURED WIND DATA\*

TABLE	5							
RELEASED	FROM	NICK	DATE	30 July	1979	TIME	100	MDT
RELEASE	POINT COORDINA	TES (WSTM	x = 470	0,734.56	Y-255,	775.64	H= 4126.57	918
MISSILE	TYPE 19304 GSR	MISS	ILE NO.1	1115, 111	6, 1117 F	ROUND NO.	-58, V-59,	V-60
MISSILE	LAUNCHED FROM	LC-33	DA	TE 30 J	uly 1979	TIME 110	0, 1100:03,	1100:06 MDT
NOTE: W	IND DIRECTIONS	ARE REFE	RENCED T	O THE FI	RING AZIM	MUTH		
OR TRUE	NORTH tru	e north						

Heights are METERS AGL\_\_\_\_\_\_\_ or FEET AGL\_\_\_\_\_

HEIGHT AGL	DIRECTION DEGREES	SPEED MPH	
SFC	330	05.0	
30	333	06.5	
60	335	08.0	
90	337	09.6	
120	338	11.1	
150	338	12.6	
180	339	14.1	
210	333	11.3	
240	336	12.4	
270	338	13.4	
300	340	14.5	
330	341	15.6	
360	324	08.1	

	DIRECTION DEGREES	SPEED MPH
390	331	08.5
420	336	09.0
450	342	09.6
480	346	10.3
510	338	04.9
540	356	05.1
570	011	05.7
600	022	06.6
630	031	07.7
660	038	08.9
690	065	07.3
720	065	08.5
750	065	09.8

DELAS-MS-MT-WS Form 46 1 Sept 1979 forms 46-A & 46-B and all other Pibal forms which are obsolete.

DATE 30 July 1979 TIME 1100, 1100:03, 1100:06 MDT

HE LGHT AGL	DIRECTION DEGREES	SPEED MPH
780	065	11.0
810	065	12.3
840	074	12.0
870	071	12.3
900	068	12.6
930	065	13.0
960	062	13.4
990	070	12.3
1020	066	11.9
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DELAS-MS-MT-WS Form 46 1 Sept 1979

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GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG																															
106 106																															
3			der versi																												
	REL.HUM. PERCENT		53.0	54.0	70.0	90.0	0.68	95.0	83.0	65.0	0.89	0.44	0.84	34.0																	
0060260 R	TEMPERATURE AIR DEWPOINT	ENT I GRADE	14.4	3.6	2.5	6.9-	-7.1	17.5	-23.0	-29.3	-31.2	-41.2	0.11	-49.5																	
2110060260 S M R	AIR D	DEGREES C	23.0	12,6	, v.	0.4-	9.6	16.9	-20.9	-24.6	-27.1	-33.2	17.0	-39.7	-42.2	-50.1	- 50.9	-56.6	-63.9	6.40	-72.0	6.69-	-71.5	-63.3	27.5	-52.3	-52,1	-49.3	8.64	12.00	
	GEOMETRIC	MSL FEET	3997.3	10464.0	15054.2	18106.4	19430.9	0184.0	26933.6	8675.8	9577.8	31967.7	4130.6	34888.5	36109.1	39824.2	40976.0	42788.0	46322.2	7889.5	53820.7	4922.5	56175.0	1997.5	0.000	75296.3	7.48767	86867.0	18535.5	0.61.60	
MST MS	URE	ARS		0	0 00	0	0	0 0			2	0 0	v		0	<b>&gt;</b> ^		9	9 6	<b>.</b>			8	0 4	0 0						
IITUDE 3997.30 FEET MSL 1000 HRS MST 40. 260	PRESS	MILLIB	880.	700	591	525	200	100	370	345	332	300	273	264	250	206.	200	183	154	143.	105	100	93	2 9	200	37.	30	21,0	202	•	
100																															
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1000 HRS MST

DE 3997.30 FEET MSL	UPPER AIR DATA 2110060260	GEODETIC COO
1000 HRS MST	SAR	32.48034
260		106.42307

32.48034 LAT DEG 106.42307 LON DEG	INCEX OF REFRACTION	1.000295	1.000295	1.000291	1.000286	1.000280	1.000273	1.000268	1.000262	1.000256	1.000251	1.000243	00023	00023	1.000226	00022	1.000218	00021	00000	1.000203	1.000199	1.000195	1.000169	1.000187	1.000183	1.000179	1.000175	00017	1.000168	91000	200001	1.000157	1.000154	1.000151	1.000147	1.000144
106	SPEED KNOTS	•							4.9	8.6	110.4	11.8	111.1	9.6	8.0		. 6	11.0	13.8	15.0	15.5	10.01	12.0	9.7	8.2	8.1	•	8.2	0.0	•			1.3	5.4	3.6	4.8
	WIND DATA DIRECTION SP DEGREES(TN) KN	0.							244.5	253.8	267.0	273.2		283.6	290.4	304.7	231.0	16.3	23.4	29.1	34.7	60.1	34.0	22.4	1.2	340.6	331.0	327.3	328-1	355.5	5.3	16.7	321.1	282.4	265.0	255.3
	SPEED OF SOUND KNOTS	677.3	677.3	675.0	672.7	671.5	670.3	669.2	668.0	666.8	669.	66.3.4	662.2	661.0	626.6	658.5	655.9	654.0	653.2		650.6	2.649	646.4	645.0	643.7	9.249	641.5	640.3	639.5	030.	631.7	635.5	634.3	633.0		630.5
α X	DENSITY S GM/CUBIC METER	1014.2	1014.1	1003.6	993.2	979.1	965.2	951.5	938.0	924.7	893.7	886.0	873.4	861.1	846.9	850.7	812.9	801.3	789.9	778.6	767.5	745.0	735.3	724.8	714.0	702.9	692.0	681.3	1.0/9	9.90	637.6		617.9	608.2	598.6	589.2
	REL.HUM. PERCENT	46.0	0.94	49.5	53.0	53.1	53.2	53.3	3	53.5	53.6	53.7	53.8	53.9	54.1	52.9	59.4	61.1	62.8	9.49	66.3	1.69	75.4	81.5	83.4	82.4	81.4	80.3	82.4	600	23.50	95.0	95.0	95.0	95.0	95.0
į	TEMPERATURE R DEWPOINT EES CENTIGRADE	14.4	14.4	13.7	12.9	12.1	11.2	10.3		9.0	00.0		5.5	4.3	S. G.	, r	1.7	1.0	* B. 10-	F	-1.0	-1	-2.6	-2.8	-3.5	5.4.0	-5.5	9.9	0.7.	2.50	-7.6	7.6-	4.6-	-10.4	-11.4	-12.4
TOO HE WAS	AIR DEGREES	27.0	27.0	25.0	23.0	22.0	21.1	20.1	19.2	18.2	16.31	15.4	14.4	13.5	12.5		8.6	8-1	7.0	2.0		200	. 1.3	0.	-1.0	-1-9	-2.8	-3-7		7.4	-	-7.7	-8-7	1-6-	-10-7	-11-7
260	PRESSURE MILLIBARS	880.0	879.9	864.8	850.0	835.0	820.3	805.9	791.7	7.7.7	750.6	737.4	724.4	711.6	699.1	673.8	661.5	4.649	637.5	6529	614.4	592.2	581.1	570.3	559.5	248.9	538.5	528	218.3	4000	480.1	479.6	470-1	6.094		443.0
ASCENSION NO.	GEOMETRIC ALTITUDE MSL FEET	3997.3	400000	4500.0	2000.0		0.0009		7000.0	7500.0	8500.0	90000		1000000	10500.0	11500.0		12500.0	13000.0		14000.0	15000.0	15500.0		16500.0		17500.0	18000.0	-	19500-0	20000			•	22000.0	:

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITU	STATION ALTITUDE 3997.30 FEET MSL	211006026
30 . III. Y 79	1000 HPS MST	0 3 0

## CALCALINE RELIMING DENSITY SPEED OF WIND DATA ARE DEWPOINT PERCENT GW/CUBIC SOUND DIRECTION SPEED OF WINDS DEGREES TON MICHES CONNING SPEED OF WINDS DEGREES TON MICHES DEGREES DEGREES TON MICHES DEGREES TON MICHES DEGREES TON MICHES DEGREES DEGREES TON MICHES DEGREES TON MICHES DEGREES D										
113.7 -14.4 95.0 550.8 628.0 254.1 6.0 114.7 -15.8 -15.8 628.8 628.8 234.9 11.5 117.8 -16.8 95.0 550.8 628.8 234.9 8.1 117.8 -16.8 95.0 550.8 628.9 622.9 234.9 8.1 117.8 -20.2 89.0 550.5 622.9 234.9 8.1 11.2 118.9 -20.2 89.0 550.7 620.2 256.6 10.5 224.2 -20.2 89.0 550.7 1620.2 256.9 10.5 224.2 -20.2 89.0 550.7 1620.2 256.9 10.5 224.2 -20.2 89.0 550.7 1620.2 256.9 10.5 224.2 -20.2 86.8 12.9 550.9 10.5 224.2 -20.2 86.8 12.9 550.9 10.5 224.2 -20.2 86.8 12.9 56.9 10.5 224.2 -20.2 86.8 12.9 56.9 10.5 224.2 -20.2 86.8 12.9 56.9 10.5 224.2 -20.2 86.8 12.9 56.9 10.5 224.2 10.9 60.1 10.2 255.9 10.2 224.9 10	RESS	W 0	AIR DEGREES	PERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER		DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
114.7 -15.4 95.0 551.8 626.8 226.1 7.3 17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.8	425		-13.7	-14.4	95.0	570.8	628.0	254-1	0.9	1.000138
115.8	417	*	-14.7	-15.4	95.0	561.8	626.8	245.1	9.9	1.000136
-16.8 -17.4 95.0 544.3 624.3 234.9 8.1 -17.8 -17.8 95.0 527.0 621.6 622.9 234.0 95.0 527.0 621.6 520.7 110.5 110.5 123.2 -28.6 66.8 148.9 520.9 111.2 523.2 -28.6 66.8 148.6 520.9 520.9 111.6 11.6 1	604		-15.8	-16.4	95.0	552.9	625.5	236-1	7.3	1.000133
-17.8 -18.8 92.2 555.6 622.9 234.6 8.8 -18.9 -21.7 85.8 510.5 612.6 256.2 10.5 256.2 10.5 221.0 -21.7 85.8 510.5 612.6 256.2 10.5 221.0 -22.2 82.8 72.0 496.0 617.5 256.0 10.5 11.9 224.2 22.2 22.8 66.8 46.0 496.0 617.5 256.0 10.5 11.9 224.2 22.8 22.9 65.8 46.0 617.5 256.0 10.5 11.9 224.2 22.9 22.9 65.8 46.9 465.8 613.2 256.4 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11	401	.2	-16.8	-17.4	95.0	544.3	624.3	234.9	8.1	1.000130
-18.9 -20.2 89.0 527.1 621.6 246.2 10.5 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	393		-17.8	-18.8	92.2	535.6	625.9	234.8	8.8	1.000127
20.0 -21.7 85.8 510.5 618.9 2550.6 10.5 25.6 1 22.0 -23.2 72.1 85.8 510.5 618.9 259.9 11.2 -23.2 -25.8 72.0 494.1 616.5 256.0 11.2 -25.5 -25.8 72.0 494.1 616.5 256.0 11.2 -25.5 -25.9 72.0 447.2 611.5 260.0 11.2 -25.5 -25.9 72.0 447.2 611.2 260.0 11.2 25.5 -25.9 -25.9 60.0 614.8 260.0 11.2 25.5 -25.9 -25.9 60.0 613.2 260.0 11.2 11.2 -25.5 -25.0 -25.9 -25.0 11.2 613.2 260.0 11.2 25.0 -25.0 -25.0 11.2 613.2 260.0 11.2 25.0 -25.0 -25.0 11.2 613.2 260.0 11.2 25.0 -25.0 -25.0 11.2 11.2 613.2 260.0 11.2 25.0 11.2 25.0 -25.0 11.2 25.0 11.	385	.2	-18.9	-20.2	89.0	527.1	621.6	246.2	9.6	1.000125
25.1	377	*	-20.0	-21.7	85.8	518.7	6.00.9	256.6	10.5	1.000122
23.2	360		-2100	-21.2	85.3	4.014	0000	259.0		1.000119
23.2	36.5		-22-1	2000	77.1	2000	2010	202.0	11.0	1
-25.2 - 26.8	700		1.77	0.62	1	7.700	20110	0.505	6.11	11000-1
-24.2 -28.6 66.8 486.0 614.8 260.4 11.2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	254		-23.2	-56.8	72.0	1.464	616.2	264.1	11.6	1.000114
-25.5 -29.9 66.1 478.5 613.2 267.4 11.6 12.8 12.8 12.8 12.8 12.9 66.1 471.2 611.5 267.8 12.9 12.9 12.9 12.9 63.8 45.4 608.3 268.1 11.5 12.9 12.9 12.9 12.9 12.9 12.9 12.9 12.0 12.9 12.0 12.9 12.0 12.9 12.0 12.9 12.0 12.9 12.0 12.9 12.0 12.9 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0	347	.5	-24.5	-28.6	8.99	486.0	614.8	260.4	11.2	1.000112
-26.9 -31.0 67.7 471.2 611.5 267.8 12.4 12.2 12.9 -32.9 63.8 465.4 609.9 268.1 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13	340		-25.5	-29.9	66.1	478.5	613.2	267.4	11.6	1.000110
-28.2 -32.9 63.8 463.8 609.9 268.1 13.2 -30.7 -37.0 53.7 449.1 608.3 268.4 14.3 -30.7 -37.0 53.7 449.1 608.3 268.4 14.3 -32.3 -41.2 44.3 427.3 602.3 264.7 14.9 14.3 -34.2 -41.0 49.8 412.9 501.0 272.4 14.3 -35.2 -41.7 51.2 412.9 501.0 272.4 14.0 14.3 -35.2 -41.7 51.2 412.9 501.0 272.4 14.0 14.3 -35.2 -41.7 51.2 412.9 501.0 273.9 255.0 17.0 17.0 -35.3 17.0 41.2 399.5 238.4 21.3 17.0 -56.3 17.0 4 40.6 598.0 238.4 21.3 17.0 -56.3 17.0 4 598.0 238.4 21.3 17.0 -56.3 17.0 4 598.0 238.4 21.3 17.0 -56.3 17.0 4 59.5 252.8 14.7 11.0 -56.3 17.0 4 598.0 252.8 14.7 11.0 -56.3 17.0 4 598.0 252.8 14.7 11.0 -56.3 17.0 4 598.0 252.8 14.7 11.0 -56.3 17.0 4 598.0 252.8 14.7 11.0 -56.3 17.0 4 598.0 252.8 11.0 588.0 252.8 11.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	333		-26.9	-31.0	67.7	471.2	611.5	267.A	12.4	1.000108
-29.5 -34.9 58.7 445.4 608.3 266.4 14.0	326		-28.2	-32.9	63.8	463.8	6.609	268.1	13.2	1.000106
-30.7 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -37.0 -41.0 -37.0 -41.0 -37.0 -41.0 -42.0	319	*	-29.5	-34.0	58.7	450.4	604.3	268.4	14.5	1.000104
-35.0 -39.1 48.7 442.0 603.5 272.4 14.3 -34.2 -41.2 44.3 427.3 602.3 254.7 14.3 -41.2 44.3 602.3 254.7 14.3 -41.2 44.3 602.3 254.7 15.5 -41.0 49.8 412.9 599.5 243.6 19.5 17.0 -38.8 -47.0 41.2 399.2 590.5 236.9 228.4 21.3 17.0 -41.0 -56.3 17.0 + 59.5 590.5 236.9 228.4 21.3 17.0 -43.0 -56.3 17.0 + 59.5 590.5 252.8 11.7 11.7 11.7 11.7 11.7 11.7 11.7 11	312	9.	-30.7	-37.0	100	449.1	606.7	270.0	14.3	1.000102
-33.3 -41.2 44.3 427.3 602.3 264.7 14.3 14.3 13.2 141.2 44.3 427.3 602.3 264.7 15.5 15.6 141.7 15.6 15.9 17.0 14.4 48.4 406.0 598.0 243.6 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	306		-32.0	-39.1	0	442.0	605.0	274.6	14.0	1.000100
-34.2 -41.0 49.6 427.3 602.3 264.7 15.5 -35.2 -41.7 51.2 419.9 601.0 255.0 17.0 17.0 -35.2 -41.7 51.2 419.9 601.0 255.0 17.0 17.0 -38.8 -47.0 41.2 399.2 590.5 236.9 22.1 17.0 -59.9 -50.5 30.9** 399.2 590.5 239.2 236.9 22.1 17.0 -50.9 30.9** 378.6 592.3 252.8 14.7 17.8 -43.0 -69.9 3.0** 378.6 592.3 252.8 11.7 11.7 11.7 11.7 11.7 11.7 11.7 11	299	9.	-33.3	-41.2	44.3	435.0	603.5	272.4	14.3	1.000098
-35.2 -41.7 51.2 419.9 601.0 255.0 17.0 13.0 13.0 14.0 49.8 412.9 599.5 243.6 19.5 19.5 13.0 13.0 14.0 49.8 412.9 599.5 23.0 238.4 22.3 17.0 14.0 16.0 256.3 17.0 14.0 16.0 256.3 17.0 14.0 16.0 17.0 14.0 16.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	293	.2	-34.2	-41.0	9.64	427.3	602.3	264.7	15.5	
-36.4 -43.0 49.8 412.9 599.5 243.6 19.5 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6	286		-35.2	-41.7	51.2	419.9	601.0	255.0	17.0	
-37.6 -44.4 48.4 406.0 598.0 238.4 21.3	280	9.	-36.4	-43.0	49.8	412.9	599.5	243.6	19.5	
-38.8	274	9.	-37.6	4.44-	48.4	406.0	598.0	238.4	21.3	1.000091
-39.9 -50.5 30.9** 392.3 595.0 239.2 20.6 -41.0 -56.3 17.0** 385.4 593.7 245.1 17.8 -42.0 -69.9 3.0** 378.6 592.3 252.8 14.7 17.8 -43.0 -69.9 3.0** 378.6 592.3 252.8 14.7 11.7 11.7 11.7 11.7 11.7 11.7 11.7	268	9.	-38.8	-47.0		399.2	500.5	236.9	22.1	1.000089
-41.0 -56.3 17.0** 385.4 593.7 245.1 17.8 142.0 -69.9 3.0** 376.6 592.3 255.8 14.7 14.7 14.5.2 -43.0 -69.9 3.0** 371.8 591.0 264.2 11.7 11.7 11.4 14.5.2 146.2 11.7 11.7 11.7 11.7 11.7 11.7 11.7 11	262		-39.9	-50.5	30.9**	392.3	595.0	239.2		1.00008
-42.0 -69.9 3.0** 378.6 592.3 252.8 14.7 11.7 11.7 11.7 11.7 11.7 11.7 11.7	256	6.	-41.0	-56.3		385.4	503.7	245.1		1.00004
-44.1 -45.2 -46.2	251	.2	-42-0	6	-	374.6	5003	252.4	14.7	1.0000
-46.2 -45.2 -46.2 -46.2 -47.3 -46.2 -47.3 -46.2 -47.3 -46.2 -47.3 -48.3 -48.3 -48.3 -49.4 -50.1 -50.2 -50.2 -50.2 -51.0 -52.5	245	9	-43.0		12 5	471.0	5010	264.2	11.7	10000
-45.2 -46.2 -46.2 -47.3 -48.3 -48.3 -48.3 -48.3 -49.4 -50.1 -50.2 -50.2 -51.0 -52.5 -53.7	240		-44-1			366.1	500 6	287.1	10.01	
-46.2 -47.3 -48.3 -48.3 -48.3 -48.3 -49.4 -49.4 -50.2 -50.2 -50.2 -51.0 -52.5 -53.7	2 2					1000	2000	1.01		
-46.2 -47.3 -47.3 -47.3 -47.3 -47.3 -48.3 -48.3 -49.4 -49.4 -50.1 -50.2 -50.1 -50.1 -50.2	100		7.00			2500	2990	210.3	C. 21	90000
-47.3 -48.3 -48.3 -49.4 -49.4 -50.1 -50.1 -50.2 -51.0 -52.5 -54.1 -55.7 -57.0 -49.4 -55.7 -49.4 -53.7 -53.7 -53.7 -53.7 -53.7 -53.9 -53.7 -53.9	227		7.00-			352.0	286.9	252.5	12.1	00000
-48.3 -49.4 -49.4 -50.1 -50.1 -50.2 -51.0 -51.0 -52.5 -54.1 -55.7 -57.0 -48.3 -49.4 -533.7 -533.7 -533.7 -534.1 -533.7 -534.1 -533.7 -534.1 -533.7 -534.1 -533.7 -534.1 -534.1 -535.7 -5	477		-47.5			345.7	565.5	330.5	17.9	
-49.4 333.4 582.7 334.7 19.0 1. 50.1 50.2 34.7 19.0 1. 50.2 50.2 319.6 581.9 342.5 20.8 1. 51.0 313.2 580.7 347.4 22.7 1. 52.5 54.1 578.6 356.6 27.1 1. 555.7 55.7 57.7 58.5 1. 57.0 57.7 58.5 1. 57.0 57.7 58.5 1.	219	-	-48.3			339.5	584.1	333.7	19.5	
-50.1 -50.2 -50.2 -51.0 -51.0 -52.5 -54.1 -55.7 -57.0 313.2 581.0 342.5 20.8 11.0 313.2 580.7 347.4 22.7 11.0 308.1 578.6 352.5 24.8 11.0 30.1 576.6 356.8 27.1 11.0 30.1 576.6 356.8 27.1 11.0 30.1 576.6 356.8 27.1 11.0 30.1 576.6 356.8 27.1 11.0 30.1 576.6 356.8 356.	214	7.	4.64-			333.4	582.7	334.7		00000
-50.2 -51.0 -51.0 -52.5 -54.1 -54.1 -55.7 -57.0 -57.0 -50.2 -54.5 -57.0 -50.2 -57.0 -50.2 -57.0 -50.2 -57.0 -57.0 -57.0 -57.0 -57.0	209	.3	-50.1			326.8	581.9	336.7		00000
-51.0 -52.5 -52.5 -54.1 -54.1 -55.7 -55.7 -55.7 -57.0	204	.5	-50.2			319.6	581.6	342.5	20.8	00000
95.1 -52.5 90.6 -54.1 90.6 -54.1 86.1 -55.7 81.7 -57.0 91.7 -57.0	199	.8	-51.0			313.2	580.7	347.4	22.7	1.000070
.6 -54-1 1 -55-7 295-2 574-5 -7 -57-0 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -	5	7.	-52.5			308.1	574.6	352.5	24.8	0000
.1 =55.7 296.2 574.5 .7 28.5 1.	190	9.	-54.1			303-1	576.6	356.4	27.1	
000001	146	7	-55.7			0000	2010		90	20000
	18.		-6720						2000	

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

.TITUDE .	100	3997.30 FEET MSL 1000 HRS MST	T MSL MST		2110060260 S M R	<b>4</b>		GEODET1 32- 106-	GEODETIC COORDINATES 32-48034 LAT DEG 106-42307 LON DEG
GEOMETRIC PRESSURE TEMP ALTITUDE AIR MSL FEET MILLIBARS DEGREES	8		TEMPERATURE AIR DEWPOINT GREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SPEED DEGREES(TN) KNOTS	SPEED KNOTS	INDEX OF REFRACTION
	-58.1				287.3	571.3	8.9	29.7	1.000064
-	-59.1				281.7		6.7	28.6	1.000063
<b>n</b> c	1-09-				276.3		3.0	27.0	1.000062
160.9 -63.2	2019-				246.7		5.0	24.5	1.000060
157.0 -63.2	-63.2				2603	3000		10.4	600000-1
					255.3		3.5	17.8	1.000057
					249.8		3.6	17.2	
					245.0		4.3	17.0	1.000055
					240.5		3.5	17.8	1.000053
-67	-67				234.7		.5	20.5	1.000052
					229.3		358.3	23.0	1.000051
					224.0		8.3	23.6	1.000050
128.3 -68.1					218-8		73.5	24.5	1.000049
					203.0		) 14	21.0	2.00004
					204-1	555.3	32.0	19.9	1.000045
					199.4		36.6	18.1	1.000044
110.3 -71.3	- 27				194.8	554.1	42.1	16.6	1.000043
					186.0	552.0	7-77	12.8	1.00001
					181.2	553.0	45.0	10.0	1.000040
					175.8	554.3	47.3	9.5	1.000039
-10	-10				170.8	555.3	49.5	7.5	1.000038
					167.0	554.4	57.4	7.0	1.000037
					163.3	553.5	9./9	0.7	1.000036
0-1/- 6-26					1.661	553.8	0.07	1.3	1.000035
					9.601	224.0	3.6	1.5	1.000034
					2.001	555.8	9.79	8.7	1.000033
					0.047	2000	9.50	0.7	1.000033
	100				141.9	557.7	83.1	7.1	1.000032
					137.9	558.6	85.6	6.7	1.000031
					:	559.6	79.5	8.1	•
					130.2	560.6	76.7	4.6	1.000029
					126.6	561.5	75.1	11.3	1.000028
					123.0	562.5	74.5	13.9	1.000027
					119.5	563.4	73.7	16.5	1.000027
					110.2	564.4	73.9	18.3	1.000026
79-					113.1	565.2	24.5	19.7	1.000025
			•		110.0	266.0	9.4.2	21.0	1.000024

E 3997.30 FEET MSL 1000 HRS MST
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STATION ALTITUDE
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UPPER AIR DATA 2110060260 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FFET	PRESSURE	AI	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DA DIRECTION DEGREES(IN)	DATA SPEED	INDEX OF REFRACTION
63500.0	6.5				10701	566.8	75-7	21.2	1.000024
64000	63	6.09-			104.2	567.6	7.97	21.4	1.000023
:	62.	-60.3			101-4		78.0	21.6	1.000023
:	9	-59.7			7.86		79.7	22.1	1.000022
65500.0	-65	-59.5			96.1	569.8	81.3	22.5	1.000021
:		-59.0			93.7	570.1	83.5	55.9	1.000021
		-58.8			91.4	570.3	96.1	23.4	1.000020
		-58.6			89.5	570.6	88.5	23.9	1.000020
67500.0	53.6	-58.5			87.0		91.2	54.6	1.000019
-	52.3	-58.3			8++8		93.8	25.3	1.000019
68500.0	51.1	-58.1			82.7	571.3	0.96	26.0	1.000018
69000-0	6.64	-57.8			80.7	571.6	6.76	26.7	1.000018
69500.0	48.7	-57.4			76.6		4.66	27.4	1.000018
70000-0	47.6	-57.0			76.6	-	101.2	27.5	1.000017
-	40.4	-56.5			74.7		102.6	27.4	1.000017
	45.4	-56.1			72.8		104.3	27.3	1.000016
71500.0	6.44	-55.6			70.9	574.	107.2	27.3	1.000016
	43.3	-55.2			69.1	575.1	110.0	27.3	1.000015
72500.0		-54.8			67.4	575.7	111.9	27.2	1.000015
		-54.3			. 65.7	576.3	113.0	26.7	1.000015
	40.3	-53.9			0.49		114.2	26.3	1.000014
74000.0	39.3	-53.4			62.4	577.5	1111-1	24.4	1.000014
	38.4	-53.0			60.8	578.0	106.7	22.4	1.000014
		-52.6			59.3	578.6	101.6	20.8	1.000013
	36	-52.3			57.8		96.5	19.9	1.000013
		-52.3			56.5	579.0	91.0	19.5	1.000013
76500.0		-52.2			55.2		9.98	19.5	1.000012
		-52.2			53.9		94.4	21.1	1.000012
100		-55.5			52.6		82.5	55.6	1.000012
78000.0	•	-52.2			51.4		81.4	24.4	1.000011
	31.9	-52.5			50.5	579.1	6.08	26.3	1.000011
100		-52.1			49.1	579.2	80.5	28.3	1.000011
:	30	-52-1			47.9	579.2	81.3	29.6	1.000011
:	29	-52.0			46.8	579.3	82.5	30.8	1.000010
:	29	-51.8			45.7	579.6	83.7	31.9	1.000010
:	28	-51.6			9.44		6.48	32.7	1.000010
:	27	-51.4			43.5	580.1	86.1	33.4	1.000010
:	•	-51.2			45.5		87.2	34.1	1.000009
82500.0		-51.0			41.5		87.8	34.5	1.000009
:	25.8	-50.8	10 C. C. C. C. C. C. C.		40.5		88.4	34.9	1.000009

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG	INDEX OF REFRACTION	1.000009	1.000009	1.000008	1.000008	1.000008	1.000008	1.000008	1.000007	1.000007	1.000007	1.000007	1.000007
6E0DET1 32. 106.	SPEED KNOTS	35.3	35.7	36.1	36.6	37.9	39.3	9.04					
	WIND DATA DIRECTION SI DEGREES(TN) KI	88.8	86.0	82.3	200.7	78.7	6.92	75.2					
DATA 60	SPEEU OF SOUND KNOTS	581.1	581.4	281.7	560.9	285.4	582.4	284.1	582.8	584.6	282.4	582.2	285.2
UPPER AIR DATA 2110060260 S M R	SENSITY SM/CUBIC METER	39.5	38.6	100	0.00	6.00	25.0	2.4.5	9.50	32.7	32.0	7.10	20.2
-	REL.HUM. PERCENT												
T MSL MST	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE												
7.30 FEE	TEMP AIR DEGREES	-50.6	-500-2	-50.0	-49.8	-10.6	-400-	-40.3	-110.5	-49.6	-40.B	-40.A	•
STATION ALTITUDE 3997.30 FEET MSL 30 JULY 79 1000 HRS MST ISCENSION NO. 260	PRESSURE MILLIBARS	25.3	24.1	23.6	23.0	22.5	22.0	21.5	21.0	20.5	20.0	19.6	
STATION AL 30 JULY 79 ASCENSION	GEOMETRIC ALTITUDE MSL FEET	84000.0	84500.0	85000.0	85500.0	86000	86500.0	87000.0	87500.0	88000.0	88500.0	89000.0	

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GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG	PRESSURE MILLIBARS	2.000+1 2.000+1 3.000+1 3.000+1 3.700+1 5.960+1 7.000+1 1.000+2
6EODETIC (32.486)	TEMPERATURE AIR DEG C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DATA	DEW PT DEP DEG C	22222222
MRN SIGNIFICANT LEVEL DATA 2110060260 S M R	FPS	199999.** 199999.** 115.** 110. 111. 13.
MRN SIGNIFIC 2110 S M R	DATA N-S MPS	99999 99999 12. 12. 13.
T MSL	WIND DATA SPEED N-S MPS MPS	99999 99999 16. 10. 11. 99.
. 3997.30 FEE 1000 HRS 1	DIRECTION DEG (TN)	99999.** 99999.** 9999.** 70999.**
ATION ALTITUDE 3997.30 FEET MSL JULY 79 1000 HRS MST CENSION NO. 260	EOPOTENTIAL ALTITUDE DECAMETERS	2713. 2686. 2635. 2286. 2093. 1983. 1707.

\*\* WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3997.30 FEET MSL 30 JULY 79 1000 HRS MST ASCENSION NO. 260

MANDATORY LEVELS 2110060260 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

	PRESSURE	PRESSURE GEOPOTENTIAL	ATP	PERATURE	REL . HUM.	MI	DATA OF	
Ī	MILLIBARS	FEET	DEGREES CENTI	CENTIGRADE	יבתרבייו	DEGREES (TN)	TN) KNOTS	
	950.0	4995.	23.0	12.9	53.	9999.0	9999-0XX	
	3.008		19.8	10.0	53.	0.6666	00000 0XX	
	750.0		16.3	6.9	26	268.4	11.9	
	7007		12.6	3.6	54.	289.7	8-1	
	650.0		8.1	1:1	61.	16.1	11.0	
	0.009	14634.	3.3	-1.9	.69	38.6	14.9	
	550-0		-1.8	7:4-	82.	341.7	8.1	
	500.0		-5.6	-7.1	89.	346.9	2.7	
	450.0	22092.	-10.9	-11.6	95.	262.2	3.8	
	1.004	25031.	-16.9	-17.5	95.	234.9	8.5	
	350.0	28278.	-23.9	-28.0	.69	265.6	11.3	
	3000	31903.	-33.2	-41.2	. 44	273.1	14.2	
	250.0	36029.	-42.2			254.5	14.1	
	200-0	40876.	-50.9			347.0	22.5	
	175.0	43673.	-58.6			7.4	29.1	
	150.0	46803.	-64.5			3.5	17.2	
	125.0	50409	-69.1			14.0	22.7	
	100.0	54751.	6.69-			48.7	7.8	
	80.0	59114.	-67.0			80.5	7.5	
	70.0	61783.	-63.3			73.9	18.2	
	60.0		-59.5			80.1	22.2	
	20.0		-57.9			97.5	26.6	
	0.04		-53.7			114.1	26.1	
	30.0		-52.1			81.9	30.2	
	. 25.0		-50.5			87.9	35.4	
	20.0		d 07-					

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION. XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3997.30 FEET MSL 30 JULY 79 1000 HRS MST ASCENSION NO. 260

MRN MANDATORY LEVELS 211060260 S M R

6E0DETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

SEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED MPS	DATA N-S MPS	M M M M M M M M M M M M M M M M M M M	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
2686.	****6666	****6666		***6666-	8	9-64-	2.000+1
2540.	88.	18.	MI - 1.	-18.	66	-50.5	2.500+1
2421.	82.	16.	-5-	-15.	66	-52.1	3.000+1
2235.	114.	13.	'n	-12.	66	-53.7	4.000+1
2093.	98.	*		-14.	66	-57.9	5.000+1
1979.	80.	11.	-2.	-11:	66	-59.5	1+000-9
1883.	74.	.6	-3.	-6-	66	-63.3	7.000+1
1802.	81.	;	7	;	. 66	-67.0	8.000+1
1669.	.64	* * * * * * * * * * * * * * * * * * *	-3.		66	6-69-	1.000+2
1536.	.#.	12.	-17-		66	-69.1	1.250+2
1427.	;	.6	•	;	66	-64.5	1.500+2
1331.		15.	-15.	-2.	66	-58.6	1.750+2
1246.	347.	12.	-11-	÷	66	-50.9	2.000+2
1098.	255.	7.	2.		66	-42.2	2.500+2
972.	273.	- 1. C.	•	2	90	-33.2	3.000+2
962.	266.	•	•	•	**	-23.9	3.500+2
763.	235.	•	2.		13	-16.9	4.000+2
673.	262.	2.	:	5.	10	-10.9	4.500+2
591.	347.	*** . 1. S. C.		•	05	-5.6	5.000+2
516.	342.	;	;	## 1.5.1. m	03	-1.8	5.500+2
***	39.	•		-5.	. 02	3.3	6.000+2
380.	16.	•	-5-	-2.	07	8.1	6.500+2
319.	290.	.,	-1-		60	12.6	7.000+2
260.	268.	•	•	•	60	16.3	7.500+2
205.	88.6666	****6666	****6666-	***6666-	97	19.8	8.000+2
152.	***6666	***6666	****6666-	****6666-	10	23.0	8.500+2

\*\* WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.